Application No. 10/697,952
Filed: October 30, 2003
TC Art Unit: 2652
Confirmation No.: 7613

THE SPECIFICATION

On page 1, above line 5 and the Preliminary Amendment, please amend the Title to read as follows:

DISK DRIVE HAVING MEANS FOR PRESSING DISK TRAY BY USING CHASSIS CASE AS A REACTION POINT

Amend the paragraph on page 3, lines 2-12, as follows:

To achieve the above object, ~~claim 1 of~~ the present invention comprises a chassis case, a disk tray which supports a disk-shaped recording medium and is movable between a loading position in the chassis case and an unloading position outside of the chassis case, and a pressing means set between the chassis case and the disk tray to generate a pressing force for pressing the disk tray in ~~"the~~ the direction perpendicular to the recording ~~medium"~~ medium by using the chassis case as a reaction point when loading the disk tray, in which the pressing means presses the disk tray in ~~"the~~ the direction perpendicular to the recording ~~medium".~~ medium.

Amend the paragraph on page 3, lines 13-16, as follows:

According to ~~claim 2 of~~ the present invention, ~~the disk drive of claim 1 in which~~ a pressure is generated by a roller elastically supported so that a rolling surface is exposed from the surface of a disk tray and the slider of a side arm.

Amend the paragraph on page 3, lines 17-21, as follows:

Furthermore, according to ~~claim 3 of~~ the present invention, the disk drive ~~of claim 1~~ is characterized in that the pressing

means is provided with a roller supported by either of a chassis case or a disk tray and whose rolling surface can contact with the other.

Amend the paragraph on page 3, lines 22-27, as follows:

According to ~~claim 4 of~~ the present invention, the disk drive ~~of claim 1~~ is characterized in that the pressing means does not generate a pressing force against a disk tray when the disk tray is located at an unloading position but it generates the pressing force against the disk tray when it is located at an unloading position.

Amend the paragraph on page 3, lines 28-34, as follows:

According to ~~claim 5 of~~ the present invention, the disk drive ~~of claim 3~~ is characterized in that the disk tray has a disk support means which rotatably supports a recording medium and the pressing means generates a pressure against the disk tray before the disk support means enters a chassis case while the disk tray moves from an unloading position to a loading position.

Amend the paragraph on page 4, lines 1-8, as follows:

According to ~~claim 6 of~~ the present invention, the disk drive ~~of claim 1~~ is characterized in that the pressing means has a contact face tilting in both directions such as ~~"the~~ the direction perpendicular to a recording ~~medium"~~ medium and ~~"a~~ a radial direction of the recording ~~medium"~~ medium and a contact portion contacting with the contact face and generates a pressing force in ~~"the~~ the direction substantially perpendicular to the contact ~~face"~~ face against a disk tray.

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Amend the paragraph on page 4, lines 9-18, as follows:

According to ~~claim 7 of~~ the present invention, the disk drive ~~of claim 1~~ is characterized in that the disk tray has a main potion having a dimensional shape from which a recording medium protrudes and a side arm portion extending along the recording medium protruded from the main body portion, the chassis case has a recording medium protruding from the main body portion of the disk tray and a housing convex portion for housing the disk tray and side arm portion, and the pressing means is set between the side arm portion of the disk tray and the housing convex portion of the chassis case.

Amend the paragraph on page 12, lines 25-34, as follows:

Thus, by combining and fixing the teeth member ~~21~~ 19 with the support member 21, it is possible to completely prevent the teeth ~~19~~ 19b from being removed from the guide groove 20a of the screw shaft 20 and correspond to the increase of the access speed of the head unit 4 to the optical disk. That is, as the improvement of the recording density of the optical disk, the frequency of reciprocation of the head unit 4 increases. Moreover, because the access speed is also increased, the rotational speed of the screw shaft 20 also increases.

Amend the paragraph on page 14, lines 11-31, as follows:

When using the configuration of the above-described gear unit 17, the gear shaft of the gear G3 is loosely inserted into the bearing groove 24. Therefore, a covering plate 25 is mounted so as to prevent the gear shaft from being removed from the bearing

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groove 24. A screw through-hole 25a is formed at one end of the covering plate 25 and securing pawls ~~125b~~ 25b are formed at two places of the other end as shown by an inverted state in Fig. 9. When fixing one end of the covering plate 25 to the gear frame 23 by a screw 26, one securing pawl 25b at the other end engages with a window hole 23a formed on the gear frame 23, and the other securing pawl 25b engages with a securing step 23b. Moreover, when the above securing pawls 25b engage with the window hole 23a and the securing step 23b, slopes formed at corners of under-cut portions of the securing pawls 25b ~~contacts~~ contact with the top edge of the engagement position of the gear frame 23 as shown by a partially enlarged view in Fig. 9. Thus, it is possible to securely fix the covering plate 25 without free movement. Therefore, even if vibrations of the thread motor 16 and the gear unit 17 are propagated, the covering plate 25 is not vibrated and does not generate any noises.

Amend the paragraph on page 20, lines 11-26, as follows:

Therefore, the present invention is constituted in order to always generate a pressing force for pressing the disk tray 1 in the ~~"direction~~ direction perpendicular to a recording ~~medium"~~ medium when the disk tray 1 is locked. The above configuration is described now. In ~~figures~~ Figs. 1 or 3, rollers 38 and 39 are set inside of an essential portion of the disk tray 1, so that a part of rolling surfaces of the rollers 38 and 39 are exposed to the surface of the disk tray 1. In such configuration, as shown in ~~Fig.14~~ Fig. 14, a bearing block 1g is formed at the both sides of a window hole 1f and an angle 1h and a positioning boss 1i for hooking and fixing a support plate 40 before and after the bearing

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block 1g in both front and back are formed. By setting shafts of the rollers 38 and 39 to the bearing block 1g as well as ~~holing~~ holding and fixing the support plate 40 to the angle 1h, the rollers 38 and 39 are rotatably attached to the back surface of the disk tray 1 as shown in Fig 15.